

REMARKS

Claims 39-46 are pending herein. Claim 39 has been amended as supported by Fig. 3 of the present application, for example. Claim 41 has been amended for clarification purposes only. Claim 46 has been amended to correct a minor clerical error. Claims 42-45 have been withdrawn from consideration by the U.S. PTO as being drawn to a non-elected species, but are being maintained because each depend from claim 39.

1. The objection to Fig. 1 is noted, but deemed moot in view of the Submission of New Formal Drawing of Fig. 1 filed herewith.

2. The objection to claim 46 is noted, but deemed moot in view of rewritten claim 46 submitted above.

3. Claims 39-41 and 46 were rejected under §103(a) over Hayes et al. in view of Fair et al. To the extent that this rejection might be applied against the amended claims, it is respectfully traversed.

With reference to Figs. 2 and 3 of the present application, pending independent claim 39 recites that a planar antenna (11) is electrically and/or mechanically connected to a circuit board (21) by inserting elastically deformable pins (14,15) into through holes (22,23) in the circuit board. Claim 39 has been amended to clarify that the elastically deformable pins do not extend beyond the lower surface plane of the circuit board. The applied prior art (discussed below) does not disclose or suggest a structure corresponding to the claimed connection construction now recited in claim 39.

With reference to Fig. 3A of Hayes, a planar antenna 30 includes ground and signal feeds 36 and 37, respectively, connected to ground plane 34.

With reference to Figs. 7B and 8 of Fair, metallic shield case 2000 includes side panels 1295 having post portions 2001. Leg portions 2010 extend from post 2001 and

include foot portions 2030 having compressible mount sides 2040-42. The foot portions 2030 are inserted into holes 2091 in PCB 300 and mount sides 2040-42 are compressed inwardly to provide a press fit between the mount sides and the inner wall surface of mounting hole 2091.

The PTO apparently alleges that skilled artisans would have found it obvious to modify Hayes' ground and signal feeds 36 and 37, respectively, to include Fair's foot portions 2030 (see Office Action page 3). However, even if such a modification were made to Hayes' antenna structure, the resultant structure would still fail to disclose or suggest that "elastically deformable pins do not extend beyond the lower surface plane of the circuit board," as is now recited in pending independent claim 39. For example, it is clear from Fair that a portion of Fair's leg portion 2010 includes a cut-out 2020 resulting in a portion of foot portion 2030 having a retention edge 2036 (shown more clearly in Fig. 9 of Fair). It is clear that once shield case 2000 is fully mounted on PCB 300, foot portion 2030 extends beyond the lower surface plane of PCB 300, with retention edge 2036 abutting against PCB 300 lower plane surface. Therefore, mount aides 2040-42 extend beyond the lower surface plane of PCB 300.

Again, as explained above and in contrast to Fair's foot portion 2030 having cut-out 2020 and retention edge 2036, pending independent claim 39 now recites that the "elastically deformable pins do not extend beyond the lower surface plane of the circuit board." One of the benefits attributable to the claimed connection construction between the planar antenna and circuit board is that it reduces the overall profile of the PCB.

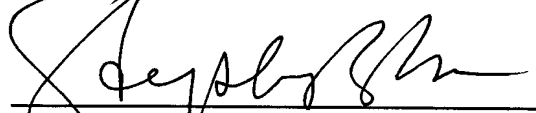
In view of the foregoing, reconsideration and withdrawal of the §103(a) rejection over Hayes in view of Fair are respectfully requested.

If the Examiner believes that contact with Applicants' attorney would be advantageous toward the disposition of this case, the Examiner is herein requested to call Applicants'

attorney at the phone number noted below.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. 50-1446.

Respectfully submitted,



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May 16, 2003

Date

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